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1978 MONTANA COMMERCIAL FERTILIZER REPORT

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COMMERCIAL FERTILIZER REPORT

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THE DEPARTMENT OF AGRICULTURE, STATE OF MONTANA, HELENA, MONTANA

AND

THE AGRICULTURE EXPERIMENT STATION, MONTANA STATE UNIVERSITY, BOZEMAN, MONTANA

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_2)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Alberto Culver Company 2525 Armitage Avenue Melrose Park, Illinois								
Green Earth (liquid)	Sidney		1	1.2	5	5.0	2	2.2
B & B Farm Supply 315 North First Street Hamilton, Montana 59840								
Custom Blend 25-10-0-7.5S	Hamilton	4030	25	24.9	10	10.6		
Beker Industries 124 West Putnam Greenwich, Connecticut 05830								
0-0-60	Kolin	4176					60	60.8
11-48-0	Kolin	4175	11	11.4	48	48.3		
11-55-0	Big Sandy	4567	11	11.5	55	55.2		
18-46-0	Crane	4080	18	17.7	46	46.0		
18-46-0	Kolin	4174	18	18.0	46	46.4		
18-46-0	Moore	4182	18	17.5	46	46.0		
18-46-0	Moore	4183	18	18.0	46	46.0		
18-46-0	Ryegate	4190	18	18.1	46	46.3		
18-46-0	Conrad	4298	18	17.8	46	45.6		
18-46-0	Fairfield	4330	18	18.0	46	46.0		
18-46-0	Glasgow	4380	18	17.9	46	46.1		
18-46-0	Great Falls	4530	18	17.9	46	46.5		
18-46-0	Great Falls	4537	18	17.8	46	45.1		
18-46-0	Big Sandy	4550	18	18.4	46	44.6		
18-46-0	Havre	4552	18	17.8	46	46.4		
18-46-0	Harlem	4563	18	17.6	46	45.9		
34-0-0	Kolin	4173	34	34.2				
Cargill, Incorporated 1625 Cargill Building Minneapolis, Minnesota 55402								
18-46-0	Havre	4035	18	17.7	46	46.5		
18-46-0	Sidney	4089	18	18.0	46	47.2		
18-46-0	Fort Benton	4214	18	18.0	46	46.0		

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Cargill, Incorporated (Cont.)								
18-46-0	Sidney	4544	18	18.0	46	46.1		
18-46-0	Valier	4270	18	17.9	46	46.4		
34-0-0	Fort Benton	4216	34	34.2				
Cenex Soil Service Center P. O. Box 43089 St. Paul, Minnesota 55165								
0-0-50	Kalispell	4149					50	50.0
0-0-60	Chinook	4036					60	60.4
0-0-60	Harlem	4050					60	60.0
0-0-60	Fallon	4074					60	60.0
0-0-60	Circle	4078					60	60.0
0-0-60	Kalispell	4148					60	60.0
0-0-60	Edgar	4156					60	59.5
0-0-60	Moore	4185					60	60.4
0-0-60	Fort Benton	4212					60	61.2
0-0-60	Broadview	4236					60	61.8
0-0-60	Dutton	4267					60	60.8
0-0-60	Valier	4285					60	60.8
0-0-60	Valier	4289					60	62.0
0-0-60	Fairfield	4316					60	60.4
0-0-60	Billings	4343					60	60.4
0-0-60	Kinsey	4402					60	60.0
0-0-60	Terry	4406					60	61.0
0-0-60	Baker	4417					60	60.0
0-0-60	Lambert	4418					60	60.3
0-0-60	Fairview	4425					60	60.0
0-0-60	Hysham	4434					60	60.4
0-0-60	Lewistown	4443					60	60.0
0-0-60	Winifred	4450					60	60.4
0-0-60	Denton	4478					60	60.4
0-0-60	Circle	4482					60	60.0
0-0-60	Chinook	4559					60	60.4
0-0-60	Havre	4562					60	60.0
0-0-60	Big Sandy	4564					60	60.0
0-0-60	Havre	4386					60	60.4
0-0-60	Big Sandy	4389					60	60.4
0-44-0	Chinook	4040			44	44.0		
0-44-0	Harlem	4045			44	43.9		
0-44-0	Circle	4077			44	43.8		
0-44-0	Worden	4097			44	44.0		
0-44-0	Kalispell	4146			44	44.4		
0-44-0	Edgar	4155			44	44.4		
0-44-0	Brady	4270			44	45.1		
0-44-0	Edgar	4333			44	45.2		
0-44-0	Terry	4405			44	45.6		

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Cenex, (Cont.)								
0-44-0	Lambert	4419			44	45.1		
0-44-0	Hysham	4435			44	44.7		
0-44-0	Circle	4483			44	44.6		
0-45-0	Fallon	4072			45	45.9		
0-45-0	Columbus	4101			45	46.6		
0-45-0	Broadview	4240			45	45.3		
0-45-0	Lewistown	4479			45	45.8		
0-45-0	Winifred	4445			45	45.3		
0-45-0	Chinook	4555			45	45.1		
11-48-0	Columbus	4100	11	11.9	48	48.8		
11-48-0	Conrad	4279	11	10.9	48	47.9		
11-48-0	Valier	4284	11	11.4	48	48.1		
11-48-0	Winifred	4446	11	11.2	48	48.6		
11-48-0	Cut Bank	4500	11	11.2	48	48.6		
11-51-0	Wolf Point	4094	11	10.9	51	50.8		
11-51-0	Fairview	4423	11	11.1	51	51.1		
11-51-0	Lewistown	4441	11	11.1	51	51.2		
11-51-0	Moore	4454	11	11.1	51	51.1		
11-51-0	Denton	4477	11	11.0	51	51.4		
11-51-0	Circle	4485	11	11.3	51	51.8		
11-55-0	Plentywood	4090	11	12.1	55	56.0		
11-55-0	Fort Benton	4211	11	11.4	55	55.6		
11-55-0	Geraldine	4228	11	11.2	55	55.2		
11-55-0	Dutton	4264	11	11.3	55	56.0		
11-55-0	Brady	4272	11	11.1	55	56.0		
11-55-0	Valier	4291	11	11.5	55	55.5		
11-55-0	Billings	4342	11	11.5	55	54.8		
11-55-0	Havre	4385	11	11.3	55	55.2		
11-55-0	Big Sandy	4388	11	11.2	55	55.4		
14-46-0	Fallon	4403	14	18.0	46	46.4		
14-46-0	Terry	4408	14	18.1	46	46.1		
16-20-0	Chinook	4038	16	16.0	20	20.7		
16-20-0	Columbus	4104	16	16.0	20	20.8		
16-20-0	Kalispell	4145	16	15.9	20	21.3		
16-20-0	Ronan	4246	16	15.9	20	20.8		
16-20-0	Brady	4275	16	16.1	20	20.1		
16-20-0	Chinook	4556	16	16.2	20	19.7		
16-20-0-15	Conrad	4277	16	15.9	20	20.0		
18-46-0	Chinook	4039	18	17.8	46	46.6		
18-46-0	Hysham	4064	18	18.0	46	46.7		
18-46-0	Terry	4068	18	18.1	46	46.4		
18-46-0	Terry	4069	18	17.8	46	46.1		
18-46-0	Fallon	4071	18	18.0	46	46.4		
18-46-0	Fallon	4073	18	17.5	46	46.2		
18-46-0	Lambert	4076	18	18.0	46	46.3		
18-46-0	Circle	4079	18	18.0	46	46.3		

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Cenex, (Cont.)								
18-46-0	Plentywood	4091	18	18.2	46	47.0		
18-46-0	Worden	4098	18	17.5	46	46.0		
18-46-0	Columbus	4102	18	18.2	46	46.7		
18-46-0	Columbus	4107	18	17.9	46	46.2		
18-46-0	Belgrade	4110	18	18.1	46	46.9		
18-46-0	Belgrade	4111	18	18.1	46	46.0		
18-46-0	Kalispell	4147	18	18.0	46	45.9		
18-46-0	Edgar	4157	18	18.0	46	46.0		
18-46-0	Lewistown	4171	18	17.9	46	45.7		
18-46-0	Fort Benton	4213	18	18.0	46	46.6		
18-46-0	Broadview	4237	18	18.0	46	46.1		
18-46-0	Broadview	4239	18	17.9	46	46.2		
18-46-0	Ronan	4245	18	18.0	46	46.1		
18-46-0	Ronan	4248	18	17.8	46	46.4		
18-46-0	Froid	4254	18	18.4	46	46.4		
18-46-0	Dutton	4266	18	17.8	46	46.0		
18-46-0	Brady	4274	18	18.3	46	46.3		
18-46-0	Conrad	4278	18	18.0	46	46.1		
18-46-0	Valier	4287	18	18.2	46	46.0		
18-46-0	Valier	4288	18	18.5	46	46.8		
18-46-0	Valier	4292	18	18.3	46	46.1		
18-46-0	Power	4303	18	18.0	46	46.7		
18-46-0	Power	4304	18	18.2	46	46.8		
18-46-0	Billings	4344	18	17.9	46	45.8		
18-46-0	Billings	4345	18	17.8	46	46.3		
18-46-0	Billings	4346	18	17.8	46	45.5		
18-46-0	Kinsey	4368	18	17.9	46	46.8		
18-46-0	Wolf Point	4378	18	17.9	46	46.0		
18-46-0	Richland	4383	18	17.7	46	46.2		
18-46-0	Havre	4384	18	17.9	46	46.1		
18-46-0	Kinsey	4409	18	18.0	46	46.1		
18-46-0	Baker	4412	18	18.1	46	46.1		
18-46-0	Baker	4413	18	18.1	46	46.2		
18-46-0	Lambert	4420	18	18.0	46	46.0		
18-46-0	Fairview	4422	18	17.9	46	46.4		
18-46-0	Savage	4426	18	17.9	46	46.3		
18-46-0	Hysham	4433	18	17.9	46	46.0		
18-46-0	Worden	4437	18	18.0	46	46.0		
18-46-0	Lewistown	4440	18	18.0	46	46.4		
18-46-0	Lewistown	4442	18	18.0	46	46.1		
18-46-0	Winifred	4447	18	17.9	46	46.1		
18-46-0	Winifred	4448	18	18.0	46	46.4		
18-46-0	Lewistown	4481	18	18.1	46	46.4		
18-46-0	Moore	4455	18	17.8	46	46.3		
18-46-0	Stanford	4459	18	17.9	46	46.3		

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Cenex, (Cont.)								
18-46-0	Denton	4476	18	18.3	46	46.1		
18-46-0	Circle	4486	18	17.8	46	46.9		
18-46-0	Circle	4487	18	17.9	46	47.0		
18-46-0	Froid	4489	18	18.0	46	46.1		
18-46-0	Richland	4490	18	17.9	46	46.0		
18-46-0	Chinook	4557	18	17.9	46	46.0		
18-46-0	Chester	80461	18	18.o	46	46.5		
21-0-0	Terry	4066	21	21.1				
21-0-0	Lambert	4075	21	21.1				
21-0-0	Kalispell	4144	21	21.2				
21-0-0	Edgar	4154	21	20.9				
21-0-0	Power	4302	21	21.0				
21-0-0	Billings	4339	21	20.9				
21-0-0	Fairview	4421	21	20.9				
27-14-0-3.5	Corvallis	4132	27	27.3	14	14.2		
34-0-0	Chinook	4037	34	33.8				
34-0-0	Chester	4047	34	33.8				
34-0-0	Hysham	4063	34	34.2				
34-0-0	Terry	4067	34	34.2				
34-0-0	Fallon	4070	34	31.4				
34-0-0	Columbus	4103	34	34.3				
34-0-0	Belgrade	4109	34	34.0				
34-0-0	Stevensville	4125	34	34.4				
34-0-0	Belgrade	4134	34	34.1				
34-0-0	Kalispell	4143	34	34.4				
34-0-0	Edgar	4153	34	34.0				
34-0-0	Geraldine	4229	34	34.1				
34-0-0	Ronan	4247	34	34.1				
34-0-0	Brady	4273	34	34.4				
34-0-0	Conrad	4276	34	34.4				
34-0-0	Valier	4283	34	33.9				
34-0-0	Power	4305	34	34.1				
34-0-0	Edgar	4332	34	34.3				
34-0-0	Billings	4340	34	33.9				
34-0-0	Billings	4341	34	34.2				
34-0-0	Kinsey	4369	34					
34-0-0	Fallon	4404	34	34.0				
34-0-0	Terry	4407	34	34.1				
34-0-0	Lindsey	4411	34	34.1				
34-0-0	Hysham	4436	34	34.5				
34-0-0	Worden	4438	34	34.1				
34-0-0	Stanford	4458	34	34.3				
34-0-0	Fairview	4424	34	34.0				
34-0-0	Chester	80460	34	34.1				
35-25-0	Lewistown	4444	35	33.3	25	22.2		

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Cenex, (Cont.)								
46-0-0	Harlem	4043	46	45.6				
46-0-0	Plentywood	4092	46	46.4				
46-0-0	Worden	4099	46	46.9				
46-0-0	Lewistown	4170	46	46.3				
46-0-0	Moore	4184	46	46.3				
46-0-0	Black Eagle	4200	46	46.0				
46-0-0	Fort Benton	4210	46	45.9				
46-0-0	Froid	4255	46	46.0				
46-0-0	Valier	4290	46	46.6				
46-0-0	Big Sandy	4387	46	46.3				
46-0-0	Lewistown	4439	46	45.9				
46-0-0	Moore	4456	46	46.7				
46-0-0	Denton	4475	46	46.4				
46-0-0	Lewistown	4480	46	46.5				
46-0-0	Circle	4484	46	46.0				
46-0-0	Froid	4488	46	46.4				
46-0-0	Richland	4491	46	46.2				
46-0-0	Cut Bank	4499	46	45.8				
46-0-0	Chinook	4558	46	46.2				
46-0-0	Chinook	4560	46	46.2				
46-0-0	Havre	4561	46	45.5				
46-0-0	Big Sandy	4566	46	45.8				
Chevron Chemical Company 940 Hensley Richmond, California 94804								
10-34-0	Hot Springs	4256	10	8.0	34	29.4		
12-0-0-6	Hot Springs	4257	12	11.4				
16-16-16	Stevensville	4128	16	15.7	16	16.0	16	16.0
16-16-16-2.7	Kalispell	4120	16	16.1	16	15.9	16	16.1
16-20-0	Stevensville	4129	16	16.2	20	20.4		
16-20-0	Hamilton	4031	16	15.7	20	19.9		
27-12-0	Deer Lodge	4016	27	26.3	12	12.4		
27-12-0	Dillon	4025	27	26.1	12	12.4		
27-12-0	Stevensville	4126	27	27.0	12	12.4		
27-12-0-4.1	Kalispell	4121	27	26.5	12	12.0		
30-0-0-6	Great Falls	4054	30	28.8				
32-0-0	Hot Springs	4258	32	31.7				
34-0-0	Dillon	4027	34	33.7				
34-0-0	Great Falls	4055	34	33.9				
34-0-0	Manhattan	4112	34	34.2				
34-0-0	Stevensville	4127	34	34.4				
34-0-0	Laurel	4162	34	34.7				
34-0-0	Moccasin	4172	34	34.5				
34-0-0	Missoula	4311	34	34.2				

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Chevron Chemical (Cont.)								
34-0-0	Hysham	4430	34	34.3				
34-0-0	Hysham	4432	34	34.2				
34-0-0	Shelby	4504	34	34.3				
Coast Trading Company Box 7696 Missoula, Montana 59801								
11-55-0	Missoula	4526	11	11.3	55	54.8		
16-20-0	Missoula	4525	16	16.4	20	20.6		
19-19-19	Missoula	4313	19	22.4	19	13.4	19	20.9
34-17-0	Missoula	4312	34	30.1	17	25.5		
34-17-0	Missoula	4528	34	32.6	17	20.9		
46-0-0	Missoula	4310	46	45.9				
Cominco American, Inc. 818 Riverside Avenue Spokane, Washington 99201								
0-0-60	Dillon	4023					60	60.0
0-0-60	Great Falls	4053					60	59.2
0-0-60	Belgrade	4136					60	60.0
0-0-60	Bridger	4152					60	61.2
0-0-60	Conrad	4300					60	61.2
0-0-60	Pendroy	4321					60	59.6
0-0-60	Fairfield	4329					60	59.6
0-0-60	Glasgow	4379					60	61.2
0-0-60	Hysham	4429					60	60.6
0-0-60	Stanford	4463					60	60.0
0-0-60	Lewistown	4467					60	60.4
0-0-60	Denton	4470					60	60.4
0-0-60	Cut Bank	4497					60	60.8
0-0-60	Shelby	4505					60	62.4
0-0-60	Great Falls	4534					60	60.0
0-0-60	Havre	4571					60	59.2
11-55-0	Deer Lodge	4015	11	11.3	55	55.1		
11-55-0	Great Falls	4056	11	11.1	55	55.2		
11-55-0	Fairview	4084	11	11.2	55	54.3		
11-55-0	Sidney	4088	11	12.0	55	55.0		
11-55-0	Belgrade	4137	11	11.6	55	55.8		
11-55-0	Laurel	4160	11	11.4	55	55.0		
11-55-0	Lewistown	4178	11	11.3	55	55.3		
11-55-0	Lewistown	4180	11	11.4	55	55.4		
11-55-0	Black Eagle	4198	11	11.3	55	55.6		
11-55-0	Great Falls	4208	11	11.2	55	55.7		
11-55-0	Fort Benton	4215	11	11.4	55	55.3		

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Cominco American, Inc. (Cont.)								
11-55-0	Fort Benton	4219	11	11.2	55	55.7		
11-55-0	Fort Benton	4220	11	11.4	55	55.2		
11-55-0	Carter	4221	11	11.3	55	55.0		
11-55-0	Missoula	4315	11	11.1	55	55.1		
11-55-0	Pendroy	4320	11	11.4	55	54.4		
11-55-0	Glendive	4371	11	11.2	55	55.2		
11-55-0	Sidney	4375	11	11.2	55	55.5		
11-55-0	Glendive	4416	11	11.2	55	55.0		
11-55-0	Stanford	4460	11	11.5	55	54.4		
11-55-0	Stanford	4462	11	11.2	55	55.2		
11-55-0	Lewistown	4465	11	12.0	55	54.4		
11-55-0	Denton	4469	11	11.2	55	55.1		
11-55-0	Denton	4472	11	11.4	55	55.0		
11-55-0	Shelby	4503	11	11.3	55	55.4		
11-55-0	Shelby	4506	11	11.3	55	54.3		
11-55-0	Wilsall	4514	11	11.3	55	55.0		
11-55-0	Cut Bank	4529	11	11.4	55	55.1		
11-55-0	Great Falls	4539	11	11.2	55	55.0		
11-55-0	Fairview	4548	11	11.1	55	55.4		
16-16-16	Ronan	4244	16	16.0	16	16.4	16	15.5
16-20-0	Great Falls	4057	16	16.0	20	20.0		
16-20-0	Hamilton	4122	16	16.5	20	19.8		
16-20-0	Laurel	4164	16	16.4	20	20.1		
16-20-0	Great Falls	4209	16	16.3	20	19.5		
16-20-0	Ronan	4242	16	16.9	20	21.2		
16-20-0	Missoula	4314	16	16.3	20	20.8		
16-20-0	Pendroy	4322	16	16.3	20	20.0		
16-20-0	Cut Bank	4498	16	16.0	20	19.9		
18-46-0	Miles City	4065	18	18.2	46	46.8		
18-46-0	Fairview	4082	18	18.4	46	46.6		
18-46-0	Sidney	4086	18	18.2	46	46.1		
18-46-0	Laurel	4161	18	18.4	46	46.2		
18-46-0	Geraldine	4227	18	18.2	46	46.3		
18-46-0	Wolf Point	4241	18	18.4	46	46.6		
18-46-0	Glasgow	4250	18	18.2	46	47.0		
18-46-0	Conrad	4281	18	18.2	46	46.0		
18-46-0	Sidney	4374	18	17.9	46	46.8		
18-46-0	Sidney	4376	18	18.3	46	46.5		
18-46-0	Glendive	4415	18	18.2	46	46.0		
18-46-0	Lewistown	4464	18	18.1	46	46.0		
18-46-0	Denton	4473	18	18.6	46	46.3		
18-46-0	Denton	4474	18	18.3	46	46.2		
18-46-0	Shelby	4507	18	18.0	46	46.5		
18-46-0	Bozeman	4516	18	18.1	46	46.4		
18-46-0	Fairview	4546	18	18.0	46	45.8		
18-46-0	Big Sandy	80466	18	18.0	46	46.0		

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Cominco American, Inc. (Cont.)								
21-0-0	Fairview	4083	21	20.9				
46-0-0	Great Falls	4293	46	46.1				
21-0-0	Belgrade	4518	21	20.8				
21-0-0-24S	Harlem	4044	21	20.7				
34-0-0	Fairview	4085	34	34.2				
34-0-0	Sidney	4087	34	34.0				
34-0-0	Carter	4221	34	34.1				
34-0-0	Sidney	4373	34	34.0				
34-0-0	Glendive	4414	34	34.2				
34-0-0	Missoula	4523	34	34.1				
34-0-0	Sidney	4543	34	33.7				
34-0-0	Fairview	4547	34	34.1				
46-0-0	Belgrade	4135	46	46.7				
46-0-0	Laurel	4163	46	46.4				
46-0-0	Lewistown	4179	46	46.4				
46-0-0	Fort Benton	4218	46	46.2				
46-0-0	Conrad	4280	46	46.0				
46-0-0	Stanford	4461	46	46.7				
46-0-0	Lewistown	4466	46	46.4				
46-0-0	Denton	4471	46	46.2				
46-0-0	Wilsall	4515	46	46.3				
46-0-0	Great Falls	4538	46	46.0				
Con-Agra, Incorporated **Kiewit Plaza** **Omaha, Nebraska 58131**								
0-0-60	Red Lodge	4336					60	60.0
0-0-60	Big Timber	4351					60	60.4
0-45-0	Big Timber	4348			45	45.2		
11-55-0	Deer Lodge	4013	11	11.7	55	55.5		
11-55-0	Moore	4186	11	12.0	55	55.6		
11-55-0	Geyser	4226	11	11.1	55	55.0		
11-55-0	Red Lodge	4335	11	3.2	55	50.5		
16-20-0	Absarokee	4105	16	16.5	20	22.4		
16-20-0	Absarokee	4159	16	16.3	20	20.0		
16-20-0	Big Timber	4350	16	16.2	20	20.2		
16.3-24.4-16.3	Deer Lodge	4096	16.3	15.8	24.4	25.4	16.3	17.9
17.2-17.2-17.2	Deer Lodge	4095	17.2	20.9	17.2	7.9	17.2	16.2
18-46-0	Roundup	4168	18	17.8	46	46.2		
18-46-0	Moore	4187	18	18.0	46	46.1		
18-46-0	Big Timber	4349	18	17.7	46	45.4		
23-23-0	Dillon	4028	23	24.4	23	23.0		
27-14-0	Absarokee	4106	27	27.8	14	16.0		
27-14-0	Geyser	4224	27	27.2	14	15.3		
30-10-0	Deer Lodge	4014	30	30.1	10	9.5		

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Con-Agra, Incorporated (Cont.)								
34-0-0	Moore	4188	34	34.0				
34-0-0	Geyser	4225	34	34.1				
34-0-0	Red Lodge	4334	34	34.3				
34-0-0	Big Timber	4347	34	34.1				
Exxon Chemical Box 3732 Houston, Texas 77001								
0-0-60	Kalispell	4113					60	60.0
0-0-60	Lewistown	4263					60	60.8
0-0-60	Billings	4353					60	58.4
0-0-60	Miles City	4365					60	61.6
0-45-0	Kalispell	4114			45	46.0		
11-48-0	Great Falls	4535	11	11.2	48	48.0		
11-48-0	Havre	4570	11	11.6	48	48.8		
11-55-0	Great Falls	4061	11	11.5	55	55.4		
11-55-0	Moore	4181	11	11.3	55	55.0		
11-55-0	Ryegate	4189	11	11.8	55	54.7		
11-55-0	Great Falls	4206	11	11.0	55	55.0		
11-55-0	Fort Benton	4217	11	11.5	55	55.5		
11-55-0	Fairfield	4328	11	11.3	55	54.9		
11-55-0	Miles City	4363	11	11.1	55	55.2		
11-55-0	Moore	4452	11	12.0	55	54.0		
11-55-0	Cut Bank	4495	11	11.4	55	55.1		
16-20-0	Great Falls	4060	16	15.9	20	20.4		
16-20-0	Belgrade	4108	16	16.6	20	20.0		
16-20-0	Kalispell	4116	16	16.1	20	20.6		
16-20-0	Stevensville	4131	16	16.0	20	23.5		
16-20-0	Laurel	4165	16	16.6	20	20.0		
16-20-0	Roundup	4169	16	16.3	20	20.3		
16-20-0	Great Falls	4203	16	16.1	20	21.0		
16-20-0	Belgrade	4509	16	17.9	20	19.6		
18-46-0	Great Falls	4059	18	17.8	46	46.8		
18-46-0	Kalispell	4115	18	18.1	46	46.1		
18-46-0	Belgrade	4133	18	17.8	46	46.8		
18-46-0	Laurel	4167	18	17.9	46	45.5		
18-46-0	Black Eagle	4201	18	18.4	46	46.3		
18-46-0	Great Falls	4204	18	18.0	46	46.3		
18-46-0	Lewistown	4230	18	17.9	46	46.2		
18-46-0	Fairfield	4321	18	18.0	46	46.5		
18-46-0	Miles City	4364	18	17.9	46	47.0		
18-46-0	Moore	4451	18	18.2	46	46.1		
18-46-0	Cut Bank	4494	18	17.7	46	46.0		
18-46-0	Cut Bank	4501	18	17.7	46	46.1		
18-46-0	Cut Bank	4502	18	17.9	46	46.6		

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Exxon Chemical (Cont.)								
18-46-0	White Sulphur Springs	4512	18	17.4	46	45.2		
18-46-0	Great Falls	4533	18	17.8	46	46.0		
18-46-0	Havre	4549	18	17.8	46	46.3		
21-0-0	Kalispell	4118	21	20.9				
21-0-0	Lewistown	4234	21	21.1				
30-10-0	Laurel	4166	30	29.3	10	13.0		
34-0-0	Belgrade	4019	34	33.8				
34-0-0	Belgrade	4020	34	33.9				
34-0-0	Kalispell	4117	34	34.4				
34-0-0	Kalispell	4119	34	34.6				
34-0-0	Stevensville	4130	34	34.5				
34-0-0	Ryegate	4191	34	34.1				
34-0-0	Great Falls	4207	34	34.3				
34-0-0	Conrad	4299	34	34.1				
34-0-0	Fairfield	4317	34	34.1				
34-0-0	Miles City	4362	34	34.2				
34-0-0	Savage	4427	34	34.4				
34-0-0	Moore	4453	34	34.4				
46-0-0	Lewistown	4231	46	45.9				
46-0-0	Cut Bank	4496	46	45.9				
46-0-0	Great Falls	4536	46	45.6				
46-0-0	Havre	4551	46	46.2				
46-0-0	Fairfield	4331	46	46.0				
General Mills Choteau, Montana 59422								
0-0-60	Choteau	4324					60	60.4
11-55-0	Choteau	4323	11	11.3	55	55.2		
16-20-0	Choteau	4326	16	16.8	20	20.1		
34-0-0	Choteau	4325	34	34.1				
Great Salt Lake Mineral and Chemicals Corporation P. O. Box 1190 Ogden, Utah 84402								
0-0-49	Belgrade	4510					49.2	48.4
Hi Line Fertilizer Incorporated Box 226 Hingham, Montana 59528								
10-34-0	Geraldine	4223	10	10.0	34	36.1		
10-34-0	Hingham	4553	10	10.0	34	34.1		
16-20-0	Red Lodge	4338	16	16.1	20	21.1		

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
International Mineral Corporation Libertyville, Illinois								
0-0-60	Belgrade	4021					60	60.0
0-0-60	Ryegate	4192					60	60.4
Irrigation Equipment Sales Box F, Highway #28 Hot Springs, Montana 59845								
10-34-10	Hot Springs	4519	10	9.5	34	34.0	10	0.6
12-0-0 (Liquid)	Hot Springs	4520	12	11.6				
32-0-0	Hot Springs	4521	32	30.8				
Kalium Chemical Company 400 Bank of Canada Regina, Saskatchewan, Canada								
0-0-60	Great Falls	4205					60	61.2
0-0-60	Billings	4361					60	61.2
0-0-60	Belgrade	4508					60	61.2
0-0-60	Hingham	4554					60	60.0
Kalispell Feed and Grain 3450 Highway 93 Kalispell, Montana 59901								
3-10-27	Kalispell	4141	3	3.0	10	10.4	27	27.2
10-33-0-(Liquid)	Kalispell	4139	10	6.0	33	31.8		
12-0-0-26	Belgrade	4140	12	11.7				
32-0-0	Kalispell	4142	32	31.4				
Kernaghan's Highwood, Montana 59450								
11-55-0	Highwood	4531	11	11.2	55	54.5		
34-0-0	Highwood	4532	34	34.1				
Minnesota Mining and Manufacturing Company 3M Center Building St. Paul, Minnesota 55101								
African Violet Food	Sidney	4398	8	9.1	11	11.5	5	5.7
Flower Food	Sidney	4399	6	6.9	12	13.0	6	6.3

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN Claimed	TOTAL NITROGEN Found	AVAILABLE PHOSPHORIC ACID (P_2O_5) Claimed	AVAILABLE PHOSPHORIC ACID (P_2O_5) Found	SOLUBLE POTASH (K_2O) Claimed	SOLUBLE POTASH (K_2O) Found
Montana Feed and Grain Box 1207 Missoula, Montana 59801								
0-0-60	Missoula	4524					60	61.2
19-19-19	Missoula	4260	19	17.5	19	19.1	19	22.4
28-28-0	Missoula	4308	28	28.8	28	28.4		
Northrup King 1500 Jackson Street NE Minneapolis, Minnesota 55413								
NK Lawn Food 22-5-9	Missoula	4527	22	22.5	5	5.5	9	9.0
Peavey Company 730 2nd Avenue South Minneapolis, Minnesota 55402								
13-41-5 (Blend)	Harlowton	4235	13	16.5	41	41.9	5	5.8
18-46-0	Lewistown	4177	18	19.3	46	46.1		
18-46-0	Conrad	4282	18	18.4	46	46.2		
35-17-0	Wilsall	4138	35	35.3	17	18.4		
Phillips Petroleum Company Box 12657 Spokane, Washington 99210								
32-0-0	Great Falls	4051	32	28.3				
Plains Feed and Grain Plains, Montana 59859								
16-20-0	Plains	4261	16	16.4	20	20.2		
21-0-0	Plains	4262	21	20.7				
34-0-0	Plains	4263	34	33.9				
Plant Food Co-Op Box 1777 Billings, Montana 59101								
34-0-0	Broadview	4238	34	33.0				
St. Paul Ammonia P.O. Box 418 St. Paul, Minnesota 55075								
34-0-0	Crane	4081	34	34.1				

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Selstad Soil Service Route 1, Box 43 Great Falls, Montana 59401								
9-30-0	Great Falls	4052	9	8.2	30	30.9		
10-34-0	Great Falls	4196	10	8.9	34	31.3		
32-0-0	Great Falls	4197	32	31.0				
Sherritt Gordon Mines, Ltd. 2828 SW Corbett Avenue Portland, Oregon 97201								
21-0-0	Great Falls	4202	21	21.0				
21-0-0	Missoula	4309	21	20.9				
21-0-0	Billings	4355	21	20.9				
21-0-0	Missoula	4522	21	20.8				
21-0-0	Plains	4029	21	20.4				
Shoco Box 3333 Augusta, Montana 59410								
11-55-0	Sidney	4541	11	11.2	55	55.2		
16-32-12	Sidney	4542	16	19.6	32	22.7	12	12.1
Simplot Soil Builders 2909 South 48th Street West Billings, Montana 59102								
18-46-0	Glasgow	4492	18	18.2	46	46.1		
18-46-0	Glasgow	4493	18	18.2	46	46.7		
J. R. Simplot Box 912 Pocatello, Idaho 83201								
0-45-0	Belgrade	4018			45	46.1		
0-45-0	Dillon	4022			45	46.3		
0-45-0	Dillon	4026			45	46.1		
0-45-0	Hamilton	4034			45	45.1		
0-45-0	Billings	4356			45	45.0		
0-45-0	Hysham	4428			45	45.9		
0-45-0	Belgrade	4517			45	44.6		
10-34-0	Billings	4358	10	10.0	34	34.5		
11-48-0	Chester	4049	11	10.8	48	48.1		
11-48-0	Conrad	4301	11	10.9	48	48.2		
11-52-0	Great Falls	4540	11	11.3	52	52.2		
11-55-0	Dutton	4268	11	11.2	55	44.5		

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
J. R. Simplot, (Cont.)								
11-55-0	Dutton	4286	11	11.6	55	55.6		
16-20-0	Deer Lodge	4017	16	15.2	20	22.8		
16-20-0	Hamilton	4123	16	16.3	20	20.1		
16-20-0	Hamilton	4124	16	16.0	20	20.1		
16-20-0	Billings	4357	16	16.0	20	20.3		
16-20-0	Wilsall	4513	16	16.0	20	21.0		
18-46-0	Rudyard	4046	18	17.6	46	46.2		
18-46-0	Chester	4048	18	17.8	46	46.4		
18-46-0	Bridger	4150	18	18.5	46	46.6		
18-46-0	Ronan	4243	18	18.5	46	48.0		
18-46-0	Baker	4252	18	17.9	46	46.6		
18-46-0	Dutton	4269	18	18.0	46	47.0		
18-46-0	Red Lodge	4337	18	18.3	46	46.7		
18-46-0	Billings	4352	18	18.0	46	46.6		
18-46-0	Miles City	4367	18	18.0	46	46.0		
18-46-0	Glendive	4370	18	18.1	46	46.7		
18-46-0	Glasgow	4382	18	18.3	46	44.4		
18-46-0	Hysham	4431	18	18.2	46	46.3		
18-46-0	Moccasin	4457	18	17.8	46	46.9		
18-46-0	Big Sandy	4565	18	17.8	46	46.3		
18-46-0	Havre	4568	18	18.0	46	46.8		
21-0-0	Dillon	4024	21	20.7				
28-0-0	Billings	4360	28	27.4				
34-0-0	Hamilton	4033	34	33.8				
34-0-0	Hysham	4062	34	34.0				
34-0-0	Baker	4251	34	34.2				
34-0-0	Sidney	4253	34	34.0				
34-0-0	Billings	4354	34	34.1				
34-0-0	Miles City	4366	34	34.1				
34-0-0	Glendive	4372	34	34.0				
34-0-0	Wolf Point	4377	34	34.0				
34-0-0	Glasgow	4381	34	34.0				
34-0-0	Winifred	4449	34	34.2				
34-0-0	Havre	4569	34	33.9				
U. S. Steel, USS Agri-Chemicals 10 East South Temple, Room 1224 Salt Lake City, Utah 84133								
34-0-0	Belgrade	4511	34	34.1				
Vigoro, Incorporated 1200 Rollins Road Burlingame, California 94010								
African Violet & Orchard Plant Food-Sidney			2.0	2.4	2.0	2.0	1.0	1.5

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Western Montana Co-Op Oil Company 400 West Main Missoula, Montana 59801								
16-20-0	Missoula	4194	16	16.0	20	20.4		
26-13-0	Missoula	4195	26	25.7	13	13.0		
34-0-0	Missoula	4193	34	34.0				
Western Seed & Supply Box 67, Round Butte Road Ronan, Montana 59864								
34-0-0	Ronan	4249	34	34.1				
Wycon Chemical Company P. O. Box 1287 Cheyenne, Wyoming 82001								
32-0-0	Billings	4359	32	31.6				

MICRONUTRIENT ANALYSES

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	MICRONUTRIENT	MICRONUTRIENT Claimed	MICRONUTRIENT Found
B & B Farm Supply 315 North First Street Hamilton, Montana 59840					
Custom Blend 25-10-0-7.5S	Hamilton	4030	Sulphur	7.5	7.6
Cenex Soil Service Center P. O. Box 43089 St. Paul, Minnesota 55165					
16-20-0-15	Conrad	4277	Sulphur	15	14.8
27-14-0-3.5	Corvallis	4132	Sulphur	3.5	4.7
Chevron Chemical Company 940 Hensley Richmond, California 94804					
12-0-0-26 Liquid	Hot Springs	4257	Sulphur	26	24.0
16-16-16-2.7	Kalispell	4120	Sulphur	2.7	2.4
27-12-0-4.1	Kalispell	4121	Sulphur	4.1	4.0
Coast Trading Company Box 7696 Missoula, Montana 59801					
16-20-0	Missoula	4525	Sulphur	14	14.6
Cominco American, Inc. W. 818 Riverside Avenue Spokane, Washington 99201					
21-0-0	Belgrade	4518	Sulphur	24	24.1
21-0-0-24S	Harlem	4044	Sulphur	24	23.8
Exxon Chemical Box 3732 Houston, Texas 77001					
16-20-0	Belgrade	4509	Sulphur	14	12.0
Kalispell Feed & Grain 3450 Highway 93 Kalispell, Montana 59901					
12-0-0-26	Kalispell	4139	Sulphur	26	24.6

MICRONUTRIENT ANALYSES

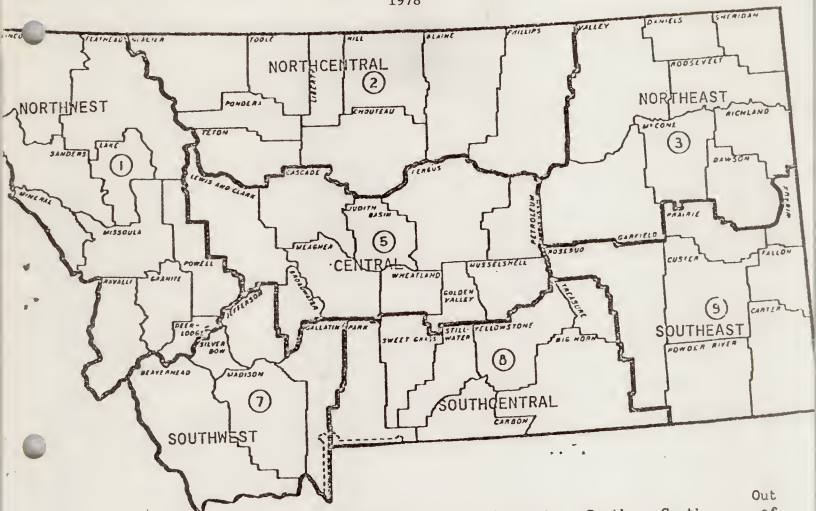
NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	MICRONUTRIENT	Claimed	Found
Northrup King 1500 Jackson Street NE Minneapolis, Minnesota 55413					
NK Lawn Food 22-5-9	Missoula	4527	Sulphur	2.0	1.9
			Iron	.5	1.4
			Zinc	.5	.5
Sherritt Gordon Mines, Ltd. 2828 SW Corbett Avenue Portland, Oregon 97201					
21-0-0-24	Plains	4029	Sulphur	24	23.8
U. S. Soil Conditioning Company P. O. Box 1037 Salida, Colorado 81201					
Planters II Trace Mineral	Plains	4259	Cobalt	.0005	.00
			Molybdenum	.0005	.0004
			Iron	.40	.73
			Calcium	5.00	14.1
			Magnesium	.50	2.22
			Sulphur	5.00	9.5
			Boron	.02	.12

Fertilizer and Fertilizer Material Sold in Montana

By Crop Reporting Districts

July-December

1978



	North West	North Central	North East	Central	South West	South Central	South East	Out of State
Ammonium Nitrate	522	4,422	1,000	921	2,060	4,276	520	479
Urea	22	915	403	2,987	327	547	85	0
Other Nitrogen Sources	557	1,702	252	1,080	1,095	1,870	152	85
P_2O_5 Sources	68	881	693	62	209	594	274	0
Potash	271	1,414	421	1,000	211	209	278	0
18-46-0	359	14,501	6,781	7,305	1,069	4,207	4,853	0
11-48-0	34	1,231	53	140	34	145	-	0
11-55-0	363	7,759	1,190	6,391	910	1,166	208	0
16-20-0	744	274	-	752	844	984	67	-
2-1-0	326	-	-	115	541	114	-	-
1-1-0	32	97	0	-	52	-	0	0
1-1-1	236	0	0	-	0	0	0	0
Miscellaneous	749	1,633	839	960	497	353	196	154
Miscellaneous Liquid	303	3,238	418	620	0	156	0	58
Gypsum, Lime and Sulphur	67	253	39	209	0	661	25	485
TOTAL TONS	4,653	38,320	12,089	22,542	7,849	15,282	6,658	1,261
Nitrogen	762	11,041	3,444	7,134	2,486	4,594	2,026	277
P_2O_5	833	13,714	4,595	7,647	1,765	3,300	2,550	30
K_2O	290	900	274	642	191	139	174	25

MONTANA DEPARTMENT OF AGRICULTURE

SUMMARY OF FERTILIZER AND FERTILIZER MATERIAL SOLD IN MONTANA

1978

MATERIALS	corrected data Jan-June (tons)	July-Dec.	Total
1. Anhydrous Ammonia (82-0-0)	1,925	4,032	5,957
2. Ammonium Nitrate	49,942	14,200	64,142
3. Ammonium Sulfate (21-0-0)	2,558	1,227	3,785
4. Urea	12,691	5,290	17,981
5. Nitrogen Solutions (Aqua Ammonia, Urea Solutions and Urea, Ammonia Nitrate Solutions)	4,486	2,603	7,089
6. 0-45-0, 0-44-0	7,593	2,474	10,067
7. Phosphoric Acid	292	306	598
8. Gypsum, Lime and Sulphur	4,391	2,424	6,815
9. Potash	8,610	3,811	12,421
10. Micro Nutrient Materials	394	188	582
AMMONIATED PHOSPHATES AND MIXTURES			
11. 18-46-0	42,726	39,076	81,802
12. 16-20-0	10,559	3,673	14,232
13. 11-48-0	3,557	1,662	5,219
14. 11-55-0	14,774	17,988	32,762
15. 30-10-0	897	32	929
16. 27-14-0	2,690	353	3,043
17. 27-12-0, 29-14-0, 28-14-0	3,094	752	3,846
18. 1-1-0 ratios such as 23-23-0	1,510	200	1,710
19. 1-1-1 ratios such as 16-16-16	1,301	238	1,539
20. Miscellaneous farm grades	11,215	5,855	17,070
21. Miscellaneous specialty grades	1,072	251	1,323
22. Liquid Mixtures	3,783	4,792	8,575
TOTAL, All Fertilizers and Materials	190,060	111,427	301,487
TOTAL NITROGEN	42,734	31,756	74,490
TOTAL P_2O_5	40,089	35,434	75,523
TOTAL K_2O	6,088		